

Amended claims

1. (Currently Amended) In a system supporting shared access to a plurality of concurrently operating applications by multiple users associated with one or more entities, a method performed by a data processor for monitoring individual application utilization, said method comprising the steps of:

maintaining a first record of different users associated with an entity;

maintaining a second record of different applications invoked by at least one of said different users;

maintaining a third record of use of an executable program employed by said different applications invoked by said at least one of said different users, said ~~third record of use~~ supporting allocation of proportion of usage of said executable program by individual applications of said different applications, said allocation being performed by determining an estimate of relative duration of use of said executable program by individual applications of said different applications; and

employing said first, second and third records for intermittently compiling data identifying operation usage characteristics of individual applications of said different applications by said at least one of said different users associated with said entity in response to a predetermined processing operation event.

2. (Canceled)

3. (Currently Amended) A method according to claim 2 ~~1~~, including the step of

determining and recording weighting factors associated with individual applications of said different applications, said weighting factors representing an estimate of relative duration of use of said executable program by individual applications of said different applications.

4. (Previously Presented) A method according to claim 1, wherein said step of intermittently compiling data comprises

intermittently compiling data identifying at least one of, (a) processor time used by an individual application, (b) a number of file accesses made by an individual application, and (c) a number of storage access requests made by an individual application.

5. (Previously Presented) A method according to claim 4, wherein said step of intermittently compiling data comprises

intermittently compiling data supporting identifying relative operation usage characteristics by an individual application as a proportion of said different applications.

6. (Previously Presented) A method according to claim 1, wherein said predetermined processing operational event comprises at least one of, (a) a data access request, (b) a storage access request, (c) termination of use of an individual application, (d) termination of a user operation session and (e) a periodically generated command.

7. (Previously Presented) A method according to claim 1, including the step of
maintaining a fourth record associating a processing device with at least one of, (a) a user, (b) an entity and (c) an individual application.

8. (Previously Presented) A method according to claim 1, wherein said second and third records include data elements and said data elements of said second and third records are dynamically created during a session of operation.

9. (Original) A method according to claim 1, wherein said executable program employed by said different applications comprises a program providing a function shared by said different applications.

10. (Original) A method according to claim 1, wherein said entity comprises at least one of, (a) a customer, (b) a company, (c) an organization and (d) an identifiable group of users.

11. (Currently Amended) In a system supporting shared access to a plurality of concurrently operating applications by multiple users associated with one or more entities, a method performed by a data processor for monitoring individual application utilization, said method comprising the steps of:

during a session of user operation,

maintaining a first record of different users associated with an entity;

maintaining a second record of different applications invoked by at least one of said different users;

maintaining a third record associating a processing device with said at least one of said different users;

maintaining a fourth record of use of an executable program employed by said different applications invoked by said at least one of said different users in allocating proportion of usage of said executable program between said different applications, said allocating being performed by determining an estimate of relative duration of use of said executable program by individual applications of said different applications; and

employing said first, second~~—and,~~ third and fourth records for intermittently compiling data identifying at least one of, (a) processor time used by an individual application, (b) a number of file accesses made by an individual application, and (c) a number of storage access requests made by an individual application of said different applications by said at least one of said different users associated with said entity in response to a predetermined processing operation event.

12. (Canceled)

13. (Canceled)

14. (Original) A method according to claim 11, wherein said step of maintaining a third record includes

maintaining a third record associating said processing device with said entity.

15. (Original) A method according to claim 11, wherein said first, second and third records are maintained in at least one of, (a) a single file and (b) a plurality of files.

16. (Previously Presented) A method according to claim 11, wherein said step of intermittently compiling data comprises
intermittently compiling data identifying at least one of, (a) size of storage employed by an individual application, (b) a number of input/output requests made by an individual application and (c) a number of file deletion requests made by an individual application.

17. (Currently Amended) In a system supporting shared access to a plurality of concurrently operating applications by multiple users associated with one or more entities, a method performed by a data processor for monitoring application utilization, said method comprising the steps of:

maintaining a first record of different users associated with an entity;
maintaining a second record of different applications invoked by at least one of said different users;

maintaining a third record associating a processing device with said at least one of said different users;

maintaining a fourth record of use of an executable program employed by said different applications invoked by said at least one of said different users in allocating proportion of usage of said executable program between said different applications, said allocating being performed by determining an estimate of relative duration of use of said executable program by individual applications of said different applications; and

employing said first, second, and third, and fourth records for intermittently compiling data identifying at least one of, (a) processor time used by an individual application, (b) a number of file accesses made by an individual application, and (c) a number of storage access requests made by an individual application of said different applications by particular users associated with said entity in response to a predetermined processing operation event; and

generating a record based on said compiled data.

18. (Previously Presented) A method according to claim 17, wherein said step of generating a record comprises

generating a record for use in adaptively adjusting system characteristics to improve system performance.

19. (Currently Amended) In a user interface system for monitoring individual application utilization of a plurality of concurrently operating applications shared by multiple users associated with one or more entities, a method performed by a data processor comprising the steps of:

initiating display of a first image including a user selectable item for selecting display of image data representing processor utilization collated by individual application for a plurality of concurrently operating applications; and

in response to user selection of said item,

initiating display of a second image including compiled data identifying at least one of, (a) processor time used by an individual application, (b) a number of file accesses made by an individual application, and (c) a number of storage access requests made by an individual application of said plurality of concurrently operating applications;

deriving said compiled data by intermittently generating data identifying operation usage characteristics of individual applications of said plurality of concurrently operating applications based on accumulated operation data records, said operation usage characteristics being collated for individual users associated with an entity; and

allocating proportion of usage of an executable program between said plurality of concurrently operating applications by determining an estimate of relative duration of use of said executable program by individual applications of said plurality of concurrently operating applications .

20. (Canceled)

21. (Currently Amended) A system for monitoring individual application utilization of a plurality of concurrently operating applications shared by multiple users associated with one or more entities, comprising:

- a record processor for,
 - maintaining a first record of different users associated with an entity,
 - maintaining a second record of different applications invoked by at least one of said different users, and
 - maintaining a third record of use of an executable program employed by said different applications invoked by said at least one of said different users, said ~~third record of use~~ supporting allocation of proportion of usage of said executable program by individual applications of said different applications, said allocation being performed by determining an estimate of relative duration of use of said executable program by individual applications of said different applications; and
- a data compiler employing said first, second and third records for intermittently compiling data identifying operation usage characteristics of individual applications of said different applications by said at least one of said different users associated with said entity in response to a predetermined processing operation event.

22. (Previously Presented) A system for monitoring individual application utilization of a plurality of concurrently operating applications shared by multiple users associated with one or more entities, comprising:

- a record processor for,
 - maintaining a first record of different users associated with an entity,
 - maintaining a second record of different applications invoked by at least one of said different users, ~~and~~
 - maintaining a third record associating a processing device with said at least one of said different users ~~and~~
 - maintaining a fourth record of use of an executable program employed by said different applications invoked by said at least one of said different users in allocating proportion of usage of said executable program between said different applications, said allocating being performed by determining an estimate of relative duration of use of said executable program by individual applications of said different applications; and
- a data compiler employing said first, second, ~~and third, and fourth~~ records for intermittently compiling data identifying at least one of, (a) processor time used by an individual application, (b) a number of file accesses made by an individual

application, and (c) a number of storage access requests made by an individual application of said different applications by said at least one of said different users associated with said entity in response to a predetermined processing operation event.